JCB
THE JOURNAL OF CELL BIOLOGY
VOL. 173, NO. 1, APRIL 10, 2006

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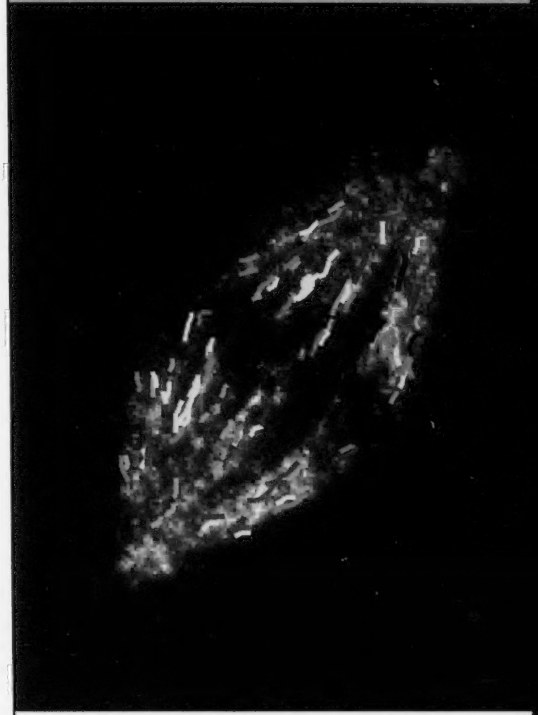

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Computer-detected speckle movement (colors) reveals poleward flux in normal spindles. Flux also occurs in monopolar spindles, even though they lack sliding forces at the midzone.
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The NAF1 (green) assembly factor associates with a snoRNA at its transcription site (red) along with RNP core proteins. NAF1 is later replaced by GAR1 in mature RNPs.
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431 E-cadherin engagement stimulates proliferation via Rac1
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443 *Drosophila melanogaster auxilin* regulates the internalization of Delta to control activity of the Notch signaling pathway
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In vascular smooth muscle cells, the Fat1 (green) protocadherin inhibits β-catenin (red), promotes cell migration, and inhibits proliferation.
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509 NDC1: a crucial membrane-integral nucleoporin of metazoan nuclear pore complexes
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N. meningitidis (blue) recruits ezrin (green) and CD44 (red) to bacterial adhesion sites on endothelial cells, thereby blocking leukocyte transmigration.
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521 The origin and maintenance of mammalian peroxisomes involves a de novo PEX16-dependent pathway from the ER
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533 Distinct p53 acetylation cassettes differentially influence gene-expression patterns and cell fate
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615 The clathrin adaptor complex 1 directly binds to a sorting signal in Ste13p to reduce the rate of its trafficking to the late endosome of yeast
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627 *Neisseria meningitidis* infection of human endothelial cells interferes with leukocyte transmigration by preventing the formation of endothelial docking structures
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SYCP3 (red) fails to localize to axial elements and forms nuclear aggregates if it is unable to bind to SYCP2 (green).
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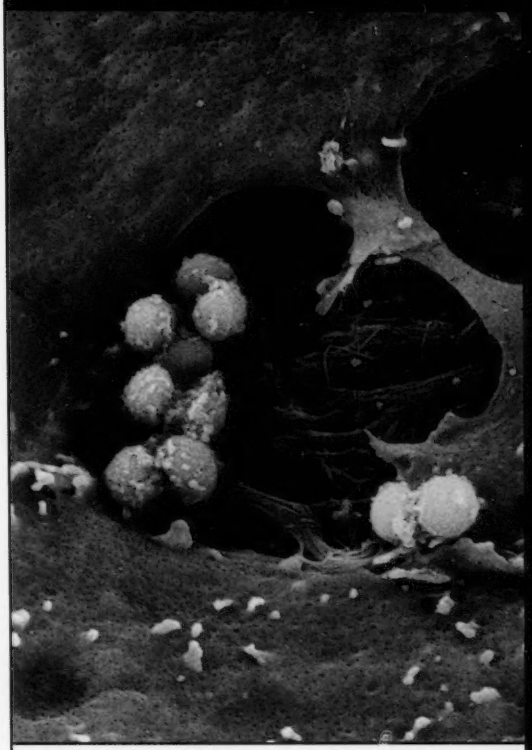

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A *Staphylococcus aureus* (yellow) virulence factor called EDIN inactivates RhoA and creates large transcellular tunnels in endothelial cells, allowing bacteria to reach the endothelium matrix.
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709 PI4P-signaling pathway for the synthesis of a nascent membrane structure in selective autophagy
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719 An intimate collaboration between peroxisomes and lipid bodies
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795 Mapping of tetraspanin-enriched microdomains that can function as gateways for HIV-1
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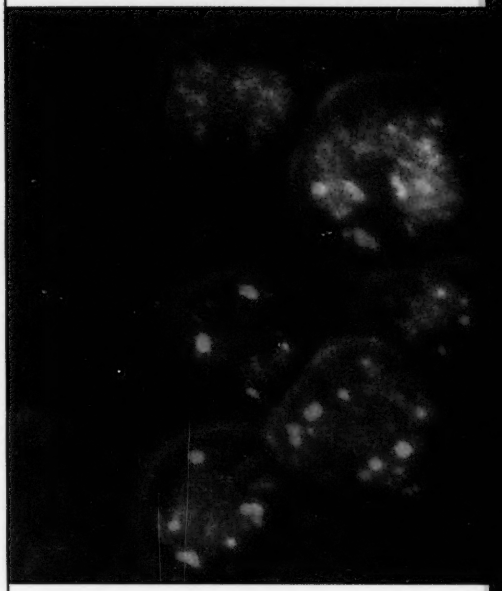
809 Induction of transient macroapertures in endothelial cells through RhoA inhibition by *Staphylococcus aureus* factors
Laurent Boyer, Anne Doye, Monica Rolando, Gilles Flatau, Patrick Munro, Pierre Gounon, René Clément, Céline Pulcini, Michel R. Popoff, Amel Mettouchi, Luce Landraud, Olivier Dussurget, and Emmanuel Lemichez

821 Correction



A close physical association of lipid bodies (red) with peroxisomes (green) helps to couple lipolysis with fatty acid oxidation.
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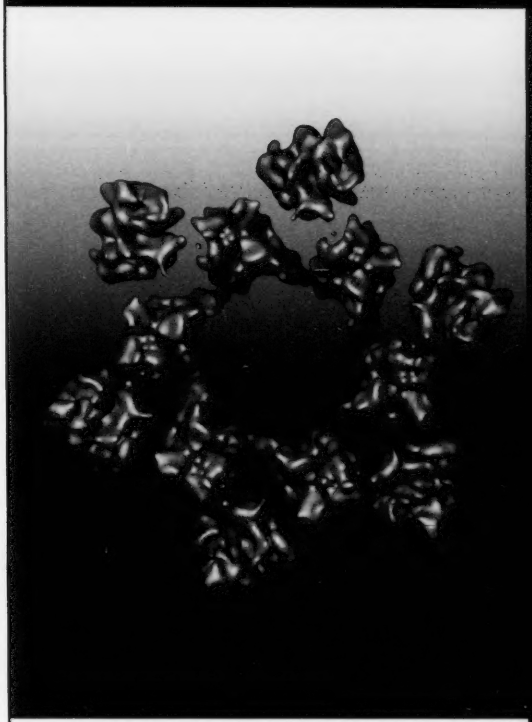

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The structure of the mouse uroplakin tetraspanin complex reveals rod-shaped structures resembling pilings in a lipid sea. See page 975.

879 HURP controls spindle dynamics to promote proper interkinetochore tension and efficient kinetochore capture
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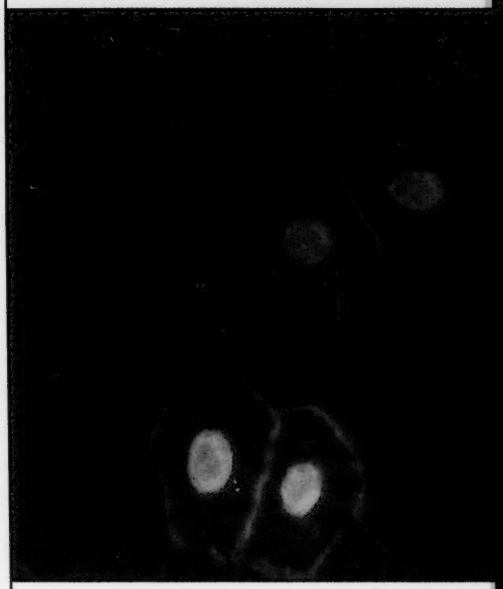
Sara K. Olson, Joseph R. Bishop, John R. Yates, Karen Oegema, and Jeffrey D. Esko



Cells disrupted for endocytosis (green) have increased cell growth.
See page 963.